

; ;	Applica	tion No.	Applicant(s)
Notice of Allowability	10/693,8		CHEN ET AL.
	Examin	er	Art Unit
<u> </u>	DiLinh N	lguyen	2814
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>10/28/03</u> .			
2. X The allowed claim(s) is/are 1-13.			·
3. ⊠ The drawings filed on <u>09 February 2004</u> are accepted by the Examiner.			
1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of International Bureau (PCT Rule * Certified copies not received: Applicant has THREE MONTHS FROM THE "MA noted below. Failure to timely comply will result in the priority does not received: Applicant has THREE MONTHS FROM THE "MA noted below. Failure to timely comply will result in the priority does not received.	of the: ocuments have been reconcuments have been reconcuments have been reconcuments had been to be a subject of the priority documents had been to be a subject of the priority documents had been a subject of the priority documents of the priority documents and the priority documents are the priority documents and the priority documents are t	reived. reived in Application No nave been received in this remnunication to file a reply	national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. ☐ CORRECTED DRAWINGS (as "replacemer (a) ☐ including changes required by the Notic 1) ☐ hereto or 2) ☐ to Paper No./Ma (b) ☐ including changes required by the attacl Paper No./Mail Date Identifying indicia such as the application number each sheet. Replacement sheet(s) should be label	e of Draftsperson's Pate ail Date ned Examiner's Amendr r (see 37 CFR 1.84(c)) sho	ent Drawing Review(PTO- nent / Comment or in the Could be written on the drawin	Office action of action of the back) of
 DEPOSIT OF and/or INFORMATION at attached Examiner's comment regarding RE 	oout the deposit of BICQUIREMENT FOR THE	DLOGICAL MATERIAL r E DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		5. Notice of Informal P	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review	ew (PTO-948)	6. Interview Summary	(PTO-413),
3. ⊠ Information Disclosure Statements (PTO-144	9 or PTO/SB/08)	Paper No./Mail Da 7. Examiner's Amendr	
Paper No./Mail Date 10/28/03			
4. Examiner's Comment Regarding Requirement	ıι ior ⊔eposiτ		ent of Reasons for Allowance
of Biological Material		9. [] Other	Waylam
			HOAI PHAM PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

DETAILED ACTION

REASONS FOR ALLOWANCE

Claims 1-13 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose the combination of all the limitations recited, including disposing a plurality of solder balls into each of the openings and performing a heating process simultaneously so that the solder balls are bonded to the residual portion of the under bump metallurgy layer temporarily; disposing a flux material above the wafer so as to at least cover the surface of each of the solder balls; performing a reflow process so that the solder balls are bonded to the residual portion of the under bump metallurgy layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DiLinh Nguyen whose telephone number is (571) 272-1712. The examiner can normally be reached on 8:00AM - 6:00PM (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/693,888

Art Unit: 2814

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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